

TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)13 Rec'd PCT/PO 13 MAR 1992  
41144INTERNATIONAL APPLICATION NO.  
PCT/NL90/00130INTERNATIONAL FILING DATE  
11 September 1990PRIORITY DATE CLAIMED  
14 September 1989TITLE OF INVENTION HUMAN PARVOVIRUS B19 PROTEINS AND VIRUS-LIKE PARTICLES, THEIR PRODUCTION  
AND THEIR USE IN DIAGNOSTIC ASSAYS AND VACCINES

APPLICANT(S) FOR DO/EO/US

Caroline Sarah Brown

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items under 35 U.S.C. 371:

1. ☒ This express request to immediately begin national examination procedures (35 U.S.C. 371(f)).
2. ☒ The U.S. National Fee (35 U.S.C. 371(c)(1)) and other fees as follows:

CLAIMS	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALCULATIONS
	TOTAL CLAIMS	48 -20 =	28	x \$ 20.00	\$ 560.00
	INDEPENDENT CLAIMS	4 -3 =	1	x \$ 72.00	72.00
	MULTIPLE DEPENDENT CLAIM(S) (if applicable)		0	+ \$ 220.00	0
	BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(4)):				
	<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482)..... \$620				
	<input type="checkbox"/> No International preliminary examination fee paid to USPTO (37 CFR 1.482) but International search fee paid to USPTO (37 CFR 1.445 (a)(2))..... \$690				
	<input type="checkbox"/> Neither International preliminary examination fee (37 CFR 1.482) nor International search fee (37 CFR 1.445(a)(2)) paid to USPTO..... \$920				
	<input type="checkbox"/> International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2) to (4)..... \$ 90				920.00
	Surcharge of \$120. for furnishing the National fee or oath or declaration later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.492(e)).				0
	TOTAL OF ABOVE CALCULATIONS				= 1552.00
	Reduction by 1/2 for filing by small entity, if applicable. Affidavit must be filed also. (Note 37 CFR 1.9, 1.27, 1.28.)				1552.00
	SUBTOTAL				+ 1552.00
	Processing fee of \$30. for furnishing the English Translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 mos. from the earliest claimed priority date (37 CFR 1.492(f)).				0
	TOTAL NATIONAL FEE				\$ 1552.00
	Fee for recording the enclosed assignment (37 CFR 1.21(h)).				+ 0
	TOTAL FEES ENCLOSED				\$ 1552.00

- a. ☒ A check in the amount of \$1552.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$\_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 03-3125. A duplicate copy of this sheet is enclosed.

3. A copy of the International Application as filed (35 U.S.C. 371(c)(2))
- ☒ is transmitted herewith (required only if not transmitted by the International Bureau).
  - ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
  - ☐ has been transmitted by the International Bureau.
4. ☐ A translation of the International Application into English (35 U.S.C. 371 (c)(2)).
5. Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
- ☒ are transmitted herewith (required only if not transmitted by the International Bureau).
  - ☐ have been transmitted by the International Bureau.
6. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
7. ☐ An oath or declaration of the inventor (35 U.S.C. 371(c)(4)).
8. ☐ A translation of the Annexes to the International Preliminary Examination Report under PCT Article 36(35 U.S.C. 371(c)(5)).

Other document(s) or information included:

9. ☐ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
10. ☐ An assignment document for recording.

Please mail the recorded assignment document to:

- ☐ the person whose signature, name & address appears at the bottom of this page.
- ☐ the following:

11. The above checked items are being transmitted

- ☐ before the 18th month publication.
- ☐ after publication and the Article 20 communication but before 20 months from the priority date.
- ☐ after 20 months but before 22 months (surcharge and/or processing fee included).
- ☐ after 22 months (surcharge and/or processing fee included).

**Note:** Petition to revive (37 CFR 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 22 months and no proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.

- ☒ by 30 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
- ☐ after 30 months but before 32 months and a proper demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date (surcharge and/or processing fee included).
- ☐ after 32 months (surcharge and/or processing fee included).

**Note:** Petition to revive (37 CFR 1.137(a) or (b)) is necessary if 35 U.S.C. 371 requirements submitted after 32 months and a proper demand for International Preliminary Examination was made by 19 months from the earliest claimed priority date.

12. At the time of transmittal, the time limit for amending claims under Article 19

- ☐ has expired and no amendments were made.
- ☐ has not yet expired.

13. ☐ Certain requirements under 35 U.S.C. 371 were previously submitted by the applicant on \_\_\_\_\_, namely:

date

Thomas F. Moran

NAME

Cooper & Dunham

ADDRESS

30 Rockefeller Plaza

New York, New York 10112

SIGNATURE

*Thomas F. Moran*

16,579

REGISTRATION NUMBER

Dkt. 41144

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant : Caroline Sarah Brown  
For : HUMAN PARVOVIRUS B19 PROTEINS AND VIRUS-LIKE  
PARTICLES, THEIR PRODUCTION AND THEIR USE IN  
DIAGNOSTIC ASSAYS AND VACCINES  
International  
Application No.: PCT/NL90/00130  
International  
Filing Date : 11 September 1990

30 Rockefeller Plaza  
New York, New York 10112  
March 13, 1992

Honorable Commissioner of  
Patents and Trademarks  
Box PCT  
Washington, D.C. 20231

Attn: (DO/EO/US)

**EXPRESS MAIL CERTIFICATE OF MAILING**  
**FOR ABOVE-IDENTIFIED APPLICATION**

"Express Mail" mailing label number: GB321138235US.  
Date of Deposit: March 13, 1992.

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Terron Breland  
Printed Name: Terron Breland

Respectfully submitted,

Thomas F. Moran  
Thomas F. Moran, Esq.  
Registration No. 16,579  
Attorney for Applicant  
Cooper & Dunham  
30 Rockefeller Plaza  
New York, New York 10112  
(212) 977-9550

Contents

- (A) Copy of the International Application as filed.
- (B) Copy of the International Search Report and Annex dated January 24, 1991.
- (C) Copy of the International Preliminary Examination Report dated December 17, 1991 included Amended claims submitted August 19, 1991.
- (D) Copy of the Request for an International Application.
- (E) Preliminary Amendment Submitted concurrently herewith.